

1. (Amended) A machine for lathing a workpiece comprising:

a first carriage having means thereon for rotational motion of said workpiece about an axis;

means for guiding said first carriage for reciprocal motion of said workpiece in a direction transverse to said axis;

a second carriage having means thereon for lathing said workpiece;

means for guiding said second carriage for reciprocal motion of said lathing means in a direction parallel to said axis; and

computer means for coordinating said workpiece rotational motion, said workpiece reciprocal motion and said lathing means reciprocal motion to infeed said workpiece along said transverse direction to said lathing means at a nominal rate to lathe said workpiece to a predetermined shape and to reciprocate said workpiece along said transverse direction at an oscillatory rate, said computer means causing said lathing means to describe a path about said axis from an outer edge of said workpiece to a center of said workpiece having a spiral component about said axis resulting from said nominal infeed and an oscillatory component superimposed on said spiral component resulting from said oscillatory reciprocation so as to segment swarf removed from said workpiece by said lathing means.

Claim 7, line 1, change "6" to -1-.

REMARKS

This application has been amended in accordance with the Advisory Action and a telephone interview with the Examiner. Applicant's attorney would like to thank Examiner Hansen for his courtesy and the telephone interview.